Area of Rectangles

Name: _____	Date: _____	Score: _____ / 24

Quick Review

The **area** of a shape is the amount of flat space it covers, measured in **square units** (like square feet or square meters). For a rectangle, you find the area by multiplying the **length** times the **width**: area $=$ length $\times$ width. Think of it as counting the rows and columns of unit squares that fill the rectangle. For example, a rug 5 feet long and 3 feet wide has an area of $5 \times 3 = 15$ square feet. **Always use square units** in your answer, because area covers a surface, not just a line.

◇ **Example:** A rectangle has a length of 7 meters and a width of 4 meters. What is its area?

⇒ Area means how much flat space the rectangle covers, and for a rectangle we multiply length by width. The length is 7 m and the width is 4 m, so $7 \times 4 = 28$. Picture 4 rows of 7 unit squares — that is 28 little squares in all. Because area covers a surface, the unit is square meters.

Answer: 28 square meters

PRACTICE

Find the area of each rectangle. Use square units.

1. Length 3, width 4 _____
2. Length 5, width 6 _____
3. Length 7, width 8 _____
4. Length 9, width 2 _____
5. Length 10, width 5 _____
6. Length 6, width 6 _____
7. Length 12, width 3 _____
8. Length 8, width 7 _____
9. Length 11, width 4 _____
10. Length 15, width 2 _____
11. Length 9, width 9 _____
12. Length 13, width 5 _____
13. Length 20, width 4 _____
14. Length 14, width 3 _____
15. Length 7, width 7 _____
16. Length 16, width 5 _____
17. Length 12, width 12 _____
18. Length 18, width 3 _____
19. Length 25, width 4 _____
20. Length 15, width 6 _____

Word Problems

21. A bedroom rug is 8 feet long and 5 feet wide. What is the area of the rug? _____
22. A garden is 12 meters long and 4 meters wide. How many square meters of space does the garden cover? _____
23. A square photo is 9 inches on each side. What is the area of the photo? _____
24. A classroom whiteboard is 6 feet long and 4 feet wide. What is its area? _____

Answer Keys

1. 12 sq units
2. 30 sq units
3. 56 sq units
4. 18 sq units
5. 50 sq units
6. 36 sq units
7. 36 sq units
8. 56 sq units
9. 44 sq units
10. 30 sq units
11. 81 sq units
12. 65 sq units
13. 80 sq units
14. 42 sq units
15. 49 sq units
16. 80 sq units
17. 144 sq units
18. 54 sq units
19. 100 sq units
20. 90 sq units
21. 40 square feet
22. 48 square meters
23. 81 square inches
24. 24 square feet

Step-by-Step Explanations

1. Multiply length times width: $3 \times 4 = 12$ square units.
2. Multiply length times width: $5 \times 6 = 30$ square units.
3. Multiply length times width: $7 \times 8 = 56$ square units.
4. Multiply length times width: $9 \times 2 = 18$ square units.
5. Multiply length times width: $10 \times 5 = 50$ square units.
6. This is a square: $6 \times 6 = 36$ square units.
7. Multiply length times width: $12 \times 3 = 36$ square units.
8. Multiply length times width: $8 \times 7 = 56$ square units.
9. Multiply length times width: $11 \times 4 = 44$ square units.
10. Multiply length times width: $15 \times 2 = 30$ square units.
11. This is a square: $9 \times 9 = 81$ square units.
12. Multiply length times width: $13 \times 5 = 65$ square units.
13. Multiply length times width: $20 \times 4 = 80$ square units.
14. Multiply length times width: $14 \times 3 = 42$ square units.
15. This is a square: $7 \times 7 = 49$ square units.
16. Multiply length times width: $16 \times 5 = 80$ square units.
17. This is a square: $12 \times 12 = 144$ square units.
18. Multiply length times width: $18 \times 3 = 54$ square units.
19. Multiply length times width: $25 \times 4 = 100$ square units.
20. Multiply length times width: $15 \times 6 = 90$ square units.
21. For a rectangle, area is length times width: $8 \times 5 = 40$. The rug covers 40 square feet.
22. Multiply length times width: $12 \times 4 = 48$. The garden covers 48 square meters.
23. A square's length and width are equal, so $9 \times 9 = 81$. The photo's area is 81 square inches.
24. Multiply length times width: $6 \times 4 = 24$. The whiteboard has an area of 24 square feet.

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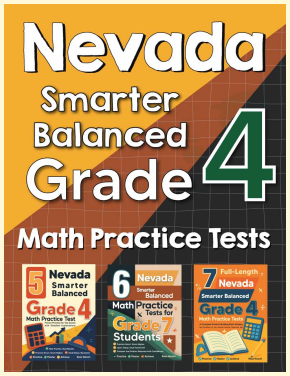

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